

Amendments to the Claims:

This listing of claims replaces all prior versions and listings of claims in the application:

Listing of Claims:

1. (Currently Amended) A chip removal method ~~that removes~~ for removing residue such as chips that have remained in and adhered to an interior of a bag-shaped machined hole in a work piece, the method comprising: wherein

providing an air blow nozzle with a spiral flow creating portion in a distal end portion thereof, wherein the spiral flow creating portion has a plurality of guide pieces that are twisted into a screw shape to change air flow therein into a spiral flow; and

directing air that is jetted out of the nozzle against a bottom portion of the machined hole, wherein the after air [[is]] jetted out and blown directed against [[a]] the bottom portion of the machined hole by using an air blow nozzle to change a flow of air that is circulating inside a nozzle into a spiral flow that moves in a direction towards the bottom portion of the machined hole, this spiral flow blows upward[[s]] like a tornado from a vicinity of the bottom portion of the machined hole in a direction toward[[s]] an aperture portion of the machined hole so that the residue inside the machined hole is uplifted by the spiral flow and removed.

2. (Currently Amended) A chip removal air blow nozzle ~~that removes~~ arranged to remove residue such as chips that have remained in and adhered to an interior of a bag-shaped machined hole in a work piece comprising:

a nozzle distal end portion that is adapted to be inserted into the machined hole; and

a spiral flow creating portion that is provided in the nozzle distal end portion and changes a flow of air that is ~~circulating~~ flowing inside the nozzle into a spiral flow,

wherein the spiral flow creating section has a plurality of guide pieces that are formed at the distal end portion of the nozzle and are twisted into a screw shape.

3. (Canceled).

4. (Currently Amended) The chip removal air blow nozzle according to claim 2 arranged so that, wherein, when the machined hole is a female threaded hole, the spiral flow turns in a direction in which ~~[[the]]~~ a thread of the machined hole is loosened.

5. (New) The chip removal air blow nozzle according to claim 2 arranged so that when air is being blown from the air blow nozzle into the machined hole, a solenoid valve for an air supply hose that is connected to an air supply source is operable to be intermittently opened and closed.

6. (New) The chip removal air blow nozzle according to claim 2, wherein the plurality of guide pieces comprises three notch portions, wherein the three notch portions are formed at 120° intervals in the nozzle distal end portion, wherein the three notch portions are inclined at an angle which is between 30° and 45° relative to an axial direction of the air blow nozzle, and wherein the three notch portions have lengths in a range of 4 millimeters to 6 millimeters from the nozzle distal end portion.